AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
1/8

100

104

108

110

102

106

FIG. 1

112

202
PROCESSOR

204
PROCESSOR

SYSTEM BUS
206

208
MEMORY
CONTROLLER/
CACHE

210
I/O BRIDGE

200

209
LOCAL
MEMORY

214
PCI BUS
BRIDGE

PCI BUS
216

212
I/O
BUS

MODEM
218

NETWORK
ADAPTER
220

230
GRAPHICS
ADAPTER

222
PCI BUS
BRIDGE

PCI BUS
226

232
HARD DISK

224
PCI BUS
BRIDGE

PCI BUS
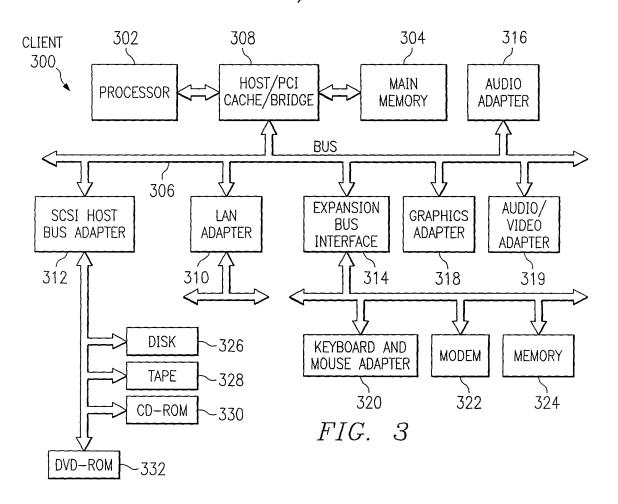228

FIG. 2

AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
2/8

CLIENT
300

302
308
304
316

| PROCESSOR | HOST/PCI CACHE/BRIDGE | MAIN MEMORY | AUDIO ADAPTER |

BUS

306

| SCSI HOST BUS ADAPTER | LAN ADAPTER | EXPANSION BUS INTERFACE | GRAPHICS ADAPTER | AUDIO/ VIDEO ADAPTER |

312   310   314   318   319

DISK ~326

TAPE ~328

CD-ROM ~330

DVD-ROM ~332

| KEYBOARD AND MOUSE ADAPTER | MODEM | MEMORY |

320   322   324

FIG. 3

400

410   430   450

| PROCESSOR | SHARE/TIER PROFILE STORAGE DEVICE | PROCESS CLASSIFIER |

470

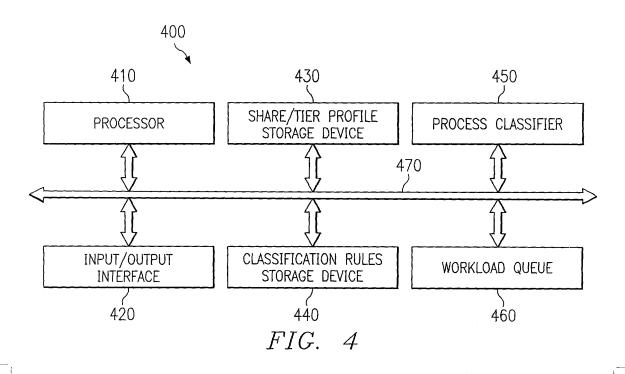| INPUT/OUTPUT INTERFACE | CLASSIFICATION RULES STORAGE DEVICE | WORKLOAD QUEUE |

420   440   460

FIG. 4

AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
3/8

FIG. 5

CLASS NAME	USER NAME	GROUP NAME	APPLICATION
SYSTEM	ROOT	-----	-----
SUPPORT	TECH 1, TECH 2	-----	-----
MARKETING	-----	-----	/bin/analysis
SKILLED	-----	WEBMASTERS	/bin/emacs
PROMOTED	SALLY	STAFF	/bin/ksh, /bin/sh
GAMES	!bob, !ted	!managers	/bin/solitaire
BAD	HACKER	-----	-----

FIG. 6

610 — PROCESS 1
620 — PROCESS 2
630 — PROCESS 3
640 — PROCESS 4
650 — PROCESS 5

CLASSIFICATION RULES 660

CLASS 1
TIER VALUE
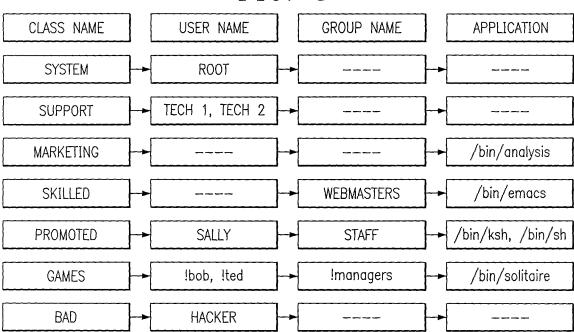NUMBER OF SHARES
— 670

CLASS 2
TIER VALUE
NUMBER OF SHARES
— 680

AUS920000865US1
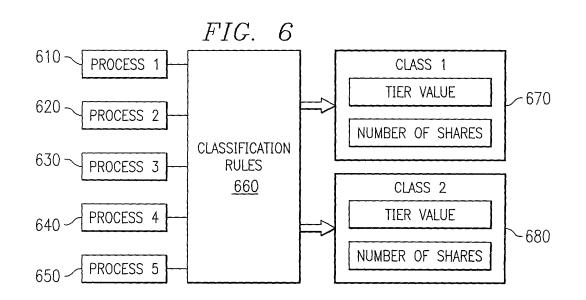Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
4/8

712   714   716
708   710
702
                    MIN   TARGET   MAX

CLASS

                720   724   728
        718   722   726
                    MIN   TARGET   MAX

704

                        730   732
                    MIN   TARGET   MAX

706

FIG. 7

804   808   810
802   812   814
                    MIN   TARGET   MAX

RANGES

POSITIONS   816   818   820   822   824

INDICATORS

            826   828   830   832   834

PRIOR POSITION AND
DIRECTION OF MOVEMENT TO
NEW POSITION AND INDICATOR

                                        >

FIG. 8

836   834

FIG. 9

AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
6/8

FIG. 10

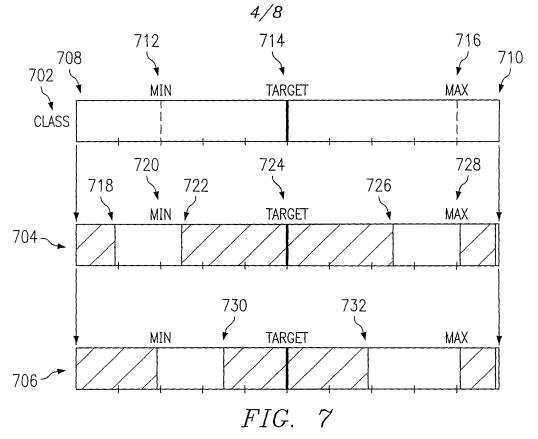AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
Data Compared to Entitled or Reference Levels
7/8

FIG. 11
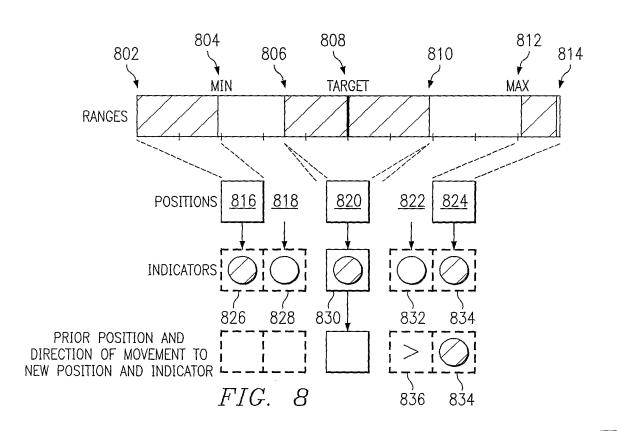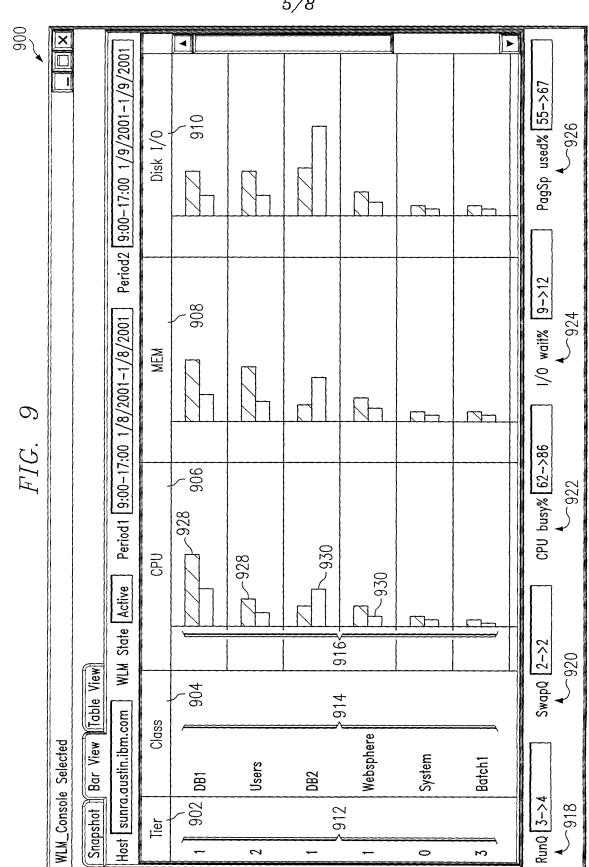
START

1102 — DETERMINE HOST TO BE MONITORED

1104 — DETERMINE TIME PERIOD
TO BE MONITORED

1106
MONITOR
CURRENT TIME PERIOD
DATA? — YES

NO

1108
MONITOR
RECORDED DATA
? — NO

YES

1110
MONITOR
ALL RECORDED
DATA? — YES

NO

1112 — MONITOR DATA AT
SPECIFIED INTERVALS

1114 — DETERMINE CONFIGURATION
OF DISPLAYED DATA

USE
PREDEFINED
CONFIGURATION
? — YES

1116

NO

USE
USER BASED TIER/
CLASS INPUT
? — NO

1118

YES

ACCEPT TIER INPUT — 1122

ACCEPT CLASS INPUT — 1124

1120
USE
USER BASED RESOURCE
SELECTIONS? — NO

YES 1126

ACCEPT USER BASED
RESOURCE SELECTIONS

1128
USE
USER BASED VIEW
SELECTIONS? — NO

YES 1130

ACCEPT USER BASED
VIEW SELECTIONS

USE DEFAULT CONFIGURATION

1132 1134

UPDATE DATA MODEL
BASED ON CONFIGURATION

RENDER DATA MODEL

1136
CONTINUE
ANALYSIS OF DATA
? — YES

NO 1138

END

AUS920000865US1
Alford et al.
Graphical User Interface for Visualization of Sampled
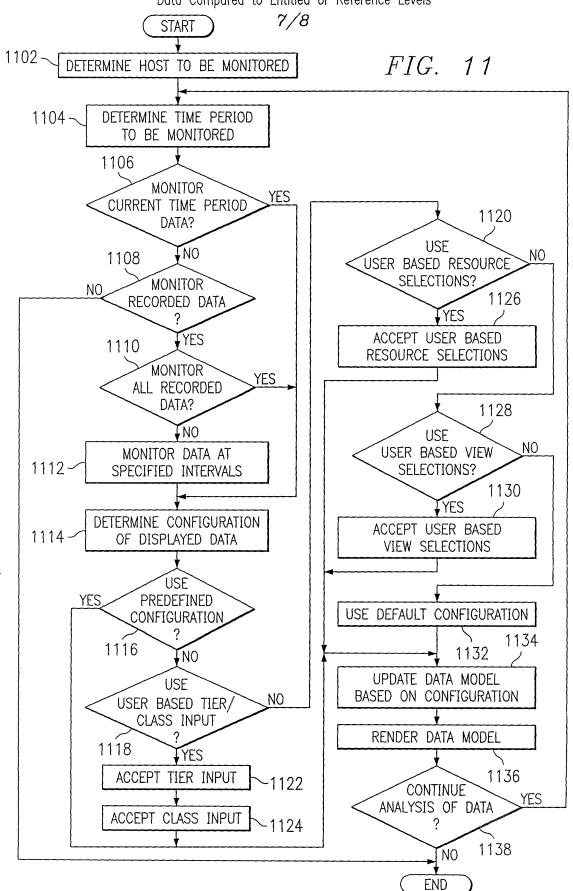Data Compared to Entitled or Reference Levels
8/8

FIG. 12

START

DETERMINE CURRENT SYSTEM
RESOURCE UTILIZATION   —1202

1204

IS CURRENT
SYSTEM RESOURCE
UTILIZATION AT TARGET
SYSTEM RESOURCE
UTILIZATION
?

NO

YES

1208

IS
CURRENT
SYSTEM RESOURCE
UTILIZATION WITHIN ONE
STANDARD DEVIATION OF TARGET
SYSTEM RESOURCE
UTILIZATION
?

YES

NO

1206

DISPLAY CURRENT SYSTEM
RESOURCE UTILIZATION AS TARGET
SYSTEM RESOURCE UTILIZATION

1210

DISPLAY CURRENT SYSTEM RESOURCE
UTILIZATION WITHIN TARGET SYSTEM
RESOURCE UTILIZATION AREA

1212

IS
CURRENT
SYSTEM RESOURCE
UTILIZATION WITHIN TWO
STANDARD DEVIATIONS OF TARGET
SYSTEM RESOURCE
UTILIZATION
?

NO

YES

IS
CURRENT SYSTEM
RESOURCE UTILIZATION ABOVE
MAXIMUM POINT OF SYSTEM
RESOURCE UTILIZATION
?

YES

1220

NO

1224

IS
CURRENT
SYSTEM RESOURCE
UTILIZATION HIGHER THAN
TARGET SYSTEM RESOURCE
UTILIZATION
?

NO

1216

YES

1214

DISPLAY CURRENT SYSTEM
RESOURCE UTILIZATION IN AREA
BELOW MINIMUM POINT OF
SYSTEM RESOURCE UTILIZATION

DISPLAY CURRENT SYSTEM RESOURCE
ALLOCATION IN AREA WITHIN TWO
STANDARD DEVIATIONS HIGHER THAN
TARGET SYSTEM RESOURCE UTILIZATION

DISPLAY CURRENT SYSTEM
RESOURCE UTILIZATION IN AREA
ABOVE MAXIMUM POINT OF
SYSTEM RESOURCE UTILIZATION

—1222

DISPLAY CURRENT SYSTEM RESOURCE
ALLOCATION IN AREA WITHIN TWO
STANDARD DEVIATIONS LOWER THAN
1218— TARGET SYSTEM RESOURCE UTILIZATION

END